

INFORMATION DISCLOSURE STATEMENT

(Use Several Sheets if necessary)

ATTY DOCKET NO.

44522

SERIAL NO.

09/608,585

APPLICANT

David E. Wallick, et al.

FILING DATE

June 30, 2000

GROUP

1714

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
J/A	2,854,477	9/30/58	Steinhauer	260	512	
	2,990,375	6/27/61	Steinhauer et al.	252	138	
	3,027,223	3/27/62	Teot	8	125	
	3,264,242	8/2/66	Teot	260	29.6	
	3,634,272	1/11/72	Valenta et al.	252	153	
	3,645,906	2/29/72	Valenta et al.	252	171	
	3,945,437	3/23/76	Chiu et al.	166	305	
	3,969,258	7/13/76	Carandang et al.	252	106	
	4,013,569	3/22/77	Chiu et al.	252	8.55	
	4,106,901	8/15/78	Bishop et al.	8	139	
	4,135,878	1/23/79	Bishop et al.	8	139	
	4,269,749	5/26/81	Marriott et al.	260	29.6	
	4,287,077	9/1/81	Wing	252	75	
	4,645,623	2/24/87	Dolan et al.	252	558	
	4,687,593	8/18/87	Dolan et al.	252	182	
	4,701,276	10/20/87	Wyman	252	62.52	
	4,757,833	7/19/88	Danley	137	13	
	4,800,036	1/24/89	Rose et al.	252	102	

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES I NO
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OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)

J/A	✓	Carter, Tracee et al., "Increasing the Solubility Enhancement of Anionic DOWFAX Surfactants," Separation Science and Technology, 33(15), pp. 2363-2377, 1998.
J/A	✓	"More Solutions to Sticky Problems - A Guide to Getting More from Your Brookfield Viscometer," Brookfield Engineering Laboratories, Inc., July, 1996.

EXAMINER

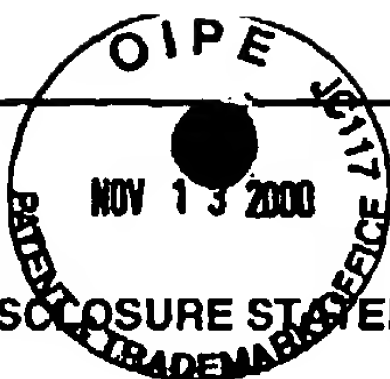
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JAT	4,806,256	2/21/89	Rose et al.	252	71	
	4,820,429	4/11/89	Lim	252	8.554	
	4,950,424	8/21/90	van der Hoeven et al.	252	540	
	4,975,110	12/4/90	Puritch et al.	71	113	
	5,000,262	3/19/91	Danzik	166	272	
	5,015,367	5/14/91	Klimpel et al.	209	166	
	5,085,789	2/4/92	Yokouchi et al.	252	62.52	
	5,136,088	8/4/92	Farmer et al.	562	88	
	5,203,411	4/20/93	Dawe et al.	166	274	
	5,273,682	12/28/93	Danzik	252	320	
	5,298,529	3/29/94	Narayanan	514	788	
	5,373,064	12/13/94	Konishi et al.	525	357	
	5,585,341	12/17/96	Van Eenam	510	365	

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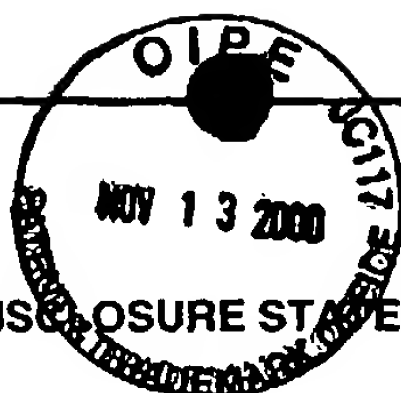
JAT	✓	"Chapter 9 - Rheology," in Shaw, Duncan J., Introduction to Colloid and Surface Chemistry, 4 th Edition, Butterworth-Heinemann Ltd., Oxford, UK (1992).
	✓	Boese, Roland; Hans-Christoph Weiss, and Dieter Blaser, "The Melting Point Alternation in the Short-Chain n-Alkanes: Single-Crystal X-Ray Analyses of Propane at 30 K and of n-Butane to n-Nonane at 90 K," Angew. Chem. Int. Ed., 38 (7), 988-992 (1999).
	✓	Rosen, Milton J., Surfactants and Interfacial Phenomena, Second Edition, John Wiley & Sons, New York (1989).
	✓	Keenan, M. J. and M. A. Krevalis, "Carboxylic Acids (Survey)" in Kirk-Othmer Encyclopedia of Chemical Technology, 4 th Edition, edited by Mary Howe-Grant Kroschwitz, John Wiley & Sons, New York (1992).
	✓	Sjoberg, Marie and Torbjorn Wamheim, "Nonaqueous Surfactant Systems," Surfactant Science Series Volume 67, pp. 179-205, edited by Kuo-Yann Lai, Marcel Dekker Inc., New York (1997).

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JDA	875551	11/04/98	Europe	—	—	
	WO 94/05759	03/17/94	PCT	—	—	
	2,050,627	03/08/92	Canada	—	—	
	9640857	01/23/97	Australia	—	—	
	3,634,644	04/30/87	Germany	—	—	X

OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)

JDA	✓	Hoffman, Heinz and Werner Ulbricht, "Viscoelastic Surfactant Solutions," Surfactant Science Series Volume 70, pp. 285-324, edited by Kunio Esumi and Minoru Ueno, Marcel Dekker Inc. New York (1997).
	✓	Rounds, R. S., "Rheology of Liquid Detergents," Surfactant Science Series Volume 67, pp. 67-127, edited by Kuo-Yann Lai, Marcel Dekker Inc., New York (1997).
	✓	Hoffman, Heinz and Heinz Rehage, "Rheology of Surfactant Solutions," Surfactant Science Series Volume 22, pp. 209-239, edited by Raoul Zana, Marcel Dekker Inc., New York.
	✓	Nasr-El-Din, H. A., D. Schriemer, and A. S. Abd-El-Aziz, Chapter 11, "Liquid Crystal Formation and Its Effect on the Flow Properties of an Anionic Surfactant," in Dynamic Properties of Interfaces and Association Structures, pp. 206-230, edited by Vinod Pillai and D. O. Shah, AOCS Press, Champaign, Ill. (1996).
	✓	Lalanne-Cassou, C. et al., "Minimizing Cosolvent Requirements for Microemulsion Formed With Binary Surfactant Mixtures," J. Dispersion Science and Technology, 8(2), pp. 137-156, (1987).
	✓	"Supersolubilization in Mono- and Dialkyl Diphenyloxidedisulfonate Solutions," Presentation by Wu, Bin et al, University of Oklahoma, September 9, 1998.
	✓	Loughney, T. J. et al., "The Determination of HLB and Solvent HLB Values for Mono and Dialkylated Mono and Disulfonated Diphenyl Oxides," World Surfactants Congr., 4 th , 1996, 2, pp. 462-474.
	✓	CA 121:234426n, JP 06,172,773, Chiba, Tsunenori et al., "Lubricant Compositions Containing Alkylphenyl Ether Sulfonates for Polyalkylene Terephthalate Vessels".
	✓	Dawe, Bob et al., "Reduced Adsorption and Separation of Blended Surfactants on Sand and Clay", J. Can. Pet. Technol., 1991, 30(2), pp. 133-7.
	✓	Research Disclosure 167077, Improved disulfonated surfactant compositions for enhanced oil recovery processes, Disclosed anonymously, March 1978

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